



STIC Search Report

EIC 1700

STIC Database Tracking Number: 132626

TO: Janis Dote
Location: REM 9C75
Art Unit : 1756
September 20, 2004

Case Serial Number: 10/699039

From: Kathleen Fuller
Location: EIC 1700
REMSSEN 4B28
Phone: 571/272-2505
Kathleen.Fuller@uspto.gov

Search Notes

Only 2 structures from a broad query and 1 CA reference .

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: JANIS DOTE Examiner #: 68274 Date: 9/14/04
 Art Unit: 1756 Phone Number: 30 571-272-1382 Serial Number: 101699,039
 Mail Box and Bldg/Room Location: REM 9075 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: ORGANOPHOTORECEPTOR WITH CHARGE TRANSPORT MATERIAL
WITH A VINYL GROUP
 Inventors (please provide full names): GRAZULEVICIUS JUOZAS VIDAS, BUIKA GINTARAS;
JANKAUSKAS VYGINTAS; GAIDEUS VALENTAS; BUDRECKIENE RUTA;
TOKARSKI ZBIGNIEW; JUBRAN NUSRALLAH
 Earliest Priority Filing Date: 10/31/03

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*Search compounds in attached claims 23-26
 note particular species in claim 26*

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>R. Fuller</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>4</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>9/20/04</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>30</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>45</u>	Other _____	Other (specify) _____

=> file reg

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STRUCTURE FILE UPDATES: 19 SEP 2004 HIGHEST RN 748118-51-6
DICTIONARY FILE UPDATES: 19 SEP 2004 HIGHEST RN 748118-51-6

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=> file hcaplus

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FILE COVERS 1907 - 20 Sep 2004 VOL 141 ISS 13
FILE LAST UPDATED: 19 Sep 2004 (20040919/ED)

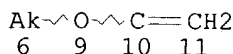
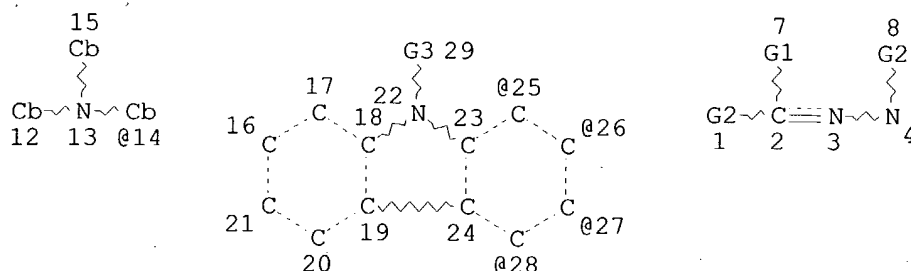
This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s 117

L18 1 L17

=> d que

L15 STR



V, the vinyl group is floating because X is so many variables. Not drawn only 2 structures from query covering 23-26

VAR G1=14/25/26/27/28
VAR G2=H/AK/CB
VAR G3=AK/CB
NODE ATTRIBUTES:
CONNECT IS M2 RC AT 6
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE
L17 2 SEA FILE=REGISTRY SSS FUL L15
L18 1 SEA FILE=HCAPLUS ABB=ON L17

=> d l18 bib abs ind hitstr

L18 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:451224 HCAPLUS
DN 135:53484
TI Electrophotographic photoreceptor, process cartridge, and
electrophotographic apparatus
IN Sekiya, Michiyo; Kikuchi, Norihiro; Maruyama, Akio; Amamiya, Shoji;
Uematsu, Hiroki; Tanaka, Hiroyuki; Daichi, Atsushi
PA Canon Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 115 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001166519	A2	20010622	JP 1999-353343	19991213
PRAI	JP 1999-353343		19991213		

AB The protective layer of the electrophotog. photoreceptor contains a compound formed by the polymerization of a pos. hole transporting compound having ≥1 polymerizable functional group and the photosensitive layer contains a charge-transporting substance having the mol. w.t ≥350. The polymerization is initiated by an electron beam with an acceleration energy of ≤250 kV and a dose of 1-100 Mrad. The process cartridge and the

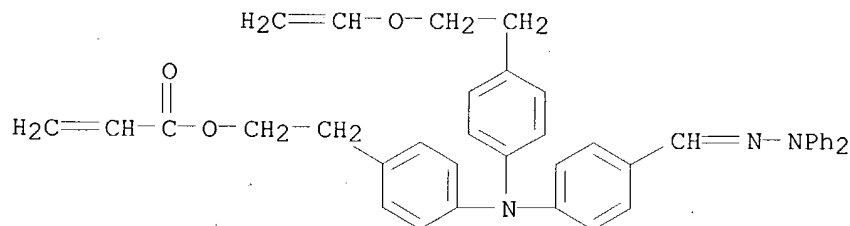
electrophotog. apparatus are also claimed. The protective layer provided scratch resistance without sacrificing the sensitivity of the photoreceptor.

- IC ICM G03G005-147
ICS G03G005-06; G03G005-07
- CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35, 38
- ST electrophotog photoreceptor protective layer hole transporting polymer; electron beam polynn electrophotog photoreceptor
- IT Electrophotographic photoconductors (photoreceptors)
(hole hole transporting polymer contained in protective layer)
- IT Electrophotographic apparatus
(hole hole transporting polymer contained in protective layer of electrophotog. photoreceptor)
- IT Electron beams
(irradiation; polymerization of hole transporting substance contained in electrophotog. photoreceptor)
- IT Polymerization
(of hole transporting substance contained in electrophotog. photoreceptor)
- IT 65181-78-4 119344-18-2 132571-92-7 154075-58-8 204135-52-4
344449-56-5 344449-57-6 344449-58-7 344449-59-8
RL: DEV (Device component use); USES (Uses)
(charge-transporting substance contained in electrophotog. photoreceptor)
- IT 268222-22-6P 268222-38-4P 268222-43-1P 268223-53-6P 269402-73-5P
344449-37-2P 344449-39-4P 344449-41-8P 344449-43-0P 344449-45-2P
344449-48-5P 344449-50-9P **344449-53-2P** 344449-55-4P
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(hole hole transporting polymer contained in protective layer of electrophotog. photoreceptor)
- IT **344449-53-2P**
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(hole hole transporting polymer contained in protective layer of electrophotog. photoreceptor)
- RN 344449-53-2 HCAPLUS
- CN 2-Propenoic acid, 2-[4-[[4-[(diphenylhydrazono)methyl]phenyl][4-[2-(ethenyloxy)ethyl]phenyl]amino]phenyl]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 344449-52-1

CMF C40 H37 N3 O3



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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d 117 1-2

L17 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN

RN 344449-53-2 REGISTRY

CN 2-Propenoic acid, 2-[4-[[4-[(diphenylhydrazono)methyl]phenyl][4-[2-(ethenyloxy)ethyl]phenyl]amino]phenyl]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

MF (C40 H37 N3 O3)x

CI PMS

PCT Polyacrylic, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

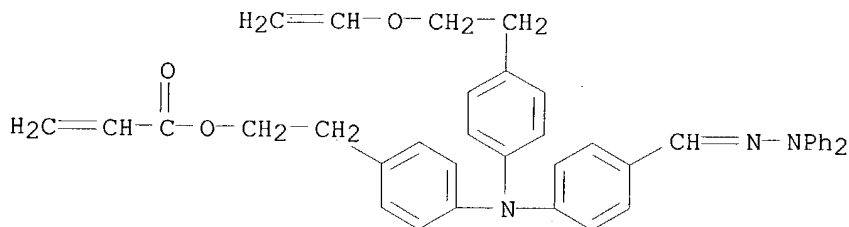
DT.CA CAPLUS document type: Patent

RL.P Roles from patents: PREP (Preparation); USES (Uses)

CM 1

CRN 344449-52-1

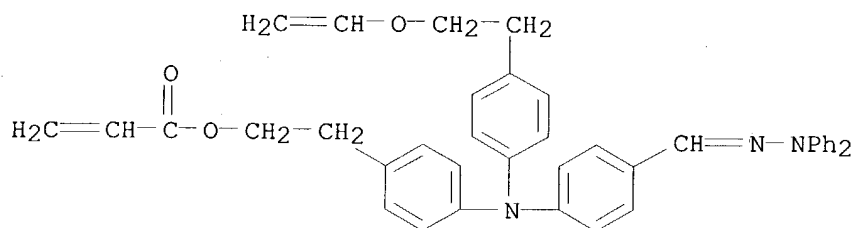
CMF C40 H37 N3 O3



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN 344449-52-1 REGISTRY
CN 2-Propenoic acid, 2-[4-[[4-[(diphenylhydrazono)methyl]phenyl][4-[2-(ethenyloxy)ethyl]phenyl]amino]phenyl]ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C40 H37 N3 O3
CI COM
SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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